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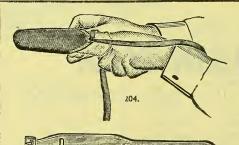
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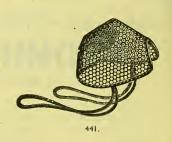
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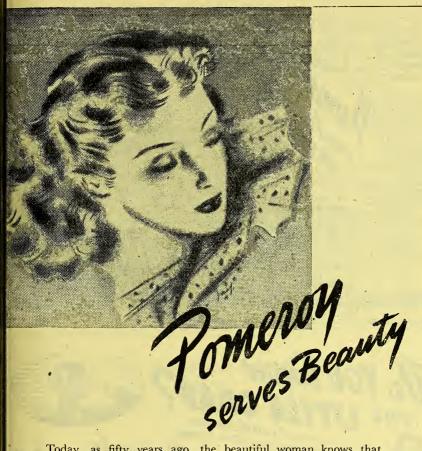
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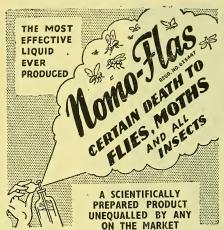
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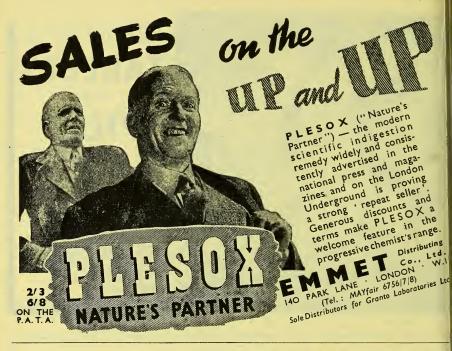


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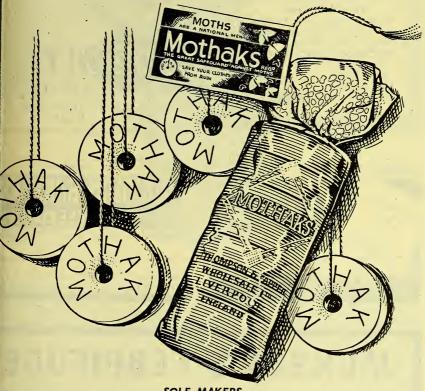
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NEWS OF THE WEEK

ertiliser Order Revoked.—The Minister Agriculture and Secretary of State for tland have revoked the Nitrogenous tilisers Order, 1943. The effect is that now no longer necessary to secure the sent of a county War Agricultural ecutive Committee to apply or use any ogenous fertiliser on any land between tember 1 and December 31 in any year.

Ilood-transfusion Window Displays.—mists in Oldham, through the local nch of the National Pharmaceutical ion, have been approached to give dow displays aimed at encouraging od donors to come forward. They are being invited to enrol volunteers.

'harmacy Act Fine.—At Howth, co. blin, Eire, recently, Trevor Walsh, the lical Hall, Howth, was fined £10, with 3s. costs, on charges of failing to employ ualified pharmacist and selling a poison hout being qualified to do so.

harmacists to Help at Blood Bank.—An ortunity is offered to pharmacists, men women, in the Manchester area, who can

spare a few hours weekly to attend at the Blood Bank, Manchester Royal Infirmary, to help in the preparation of blood plasma. The work includes sterilisation of apparatus, sharpening of needles, cleansing and sterilisation of containers, service with mobile units, etc. Pharmacists who volunteer will be instructed in the work and processes necessary under the supervision of Dr. J. F. Wilkinson (director of Blood Transfusion Service, North-west Region), who wishes to arrange a rota of pharmacists who could give about two hours' service weekly at any time convenient to them. Names should be sent to the Association secretary (Mr. T. Miller, 3 Wyngate Road, Hale, Cheshire).

Teats Used for Rubber Dummies.—Mr. Hynd asked the President of the Board of Trade (Mr. Hugh Dalton) in the House of Commons on July 5, whether he was aware that rubber dummy teats were being sold in drug-stores and peddled by canvassers to chemists; that there appeared to be a prodigality of rubber prophylactic goods;

that many chemists were unable to obtain necessary supplies of teats and valves for feeding bottles; and whether, in view of the importance of the latter in the interests of national health, some inquiry would be made into the general position of priorities for pharmaceutical rubber.

The Parliamentary Secretary to the Board of Trade (Captain Waterhouse): The manufacture of rubber dummy teats is prohibited. . . Arrangements have recently been made to increase raw materials available to manufacturers of rubber teats

and valves.

Mr. Hynd: Is not the Minister aware that, although the manufacture of dummy rubber teats has been prohibited, they are still being openly peddled round druggists' shops and in many cases have all the appearance of having been adapted from bottle teats which chemists are unable to obtain for bottles already in stock?

Captain Waterhouse: I am aware such allegations have been made and my right hon. Friend the Minister of Supply is having

the matter looked into.

Alleged Embezzlement.—At St. Albans City Sessions, recently, Gwylin Perris Pritchard was placed on probation for two years on a charge of embezzling £1 is. 3d. from his employers, Boots, Ltd., on January 7, and fined £5 on each of four other similar charges with costs in each case.

One Hundred Aspirins.—A verdict that he took his life while the balance of his mind was disturbed was returned at an inquest at Bromsgrove, Worcs, on June 18, on William Southall, Spring Street, Cradley, who was stated to have taken 100 aspirin tablets.

Dublin-made Penicillin.—Penicillin produced in Dublin has already been used with success on some thirty patients in Dublin hospitals who had been suffering from septic wounds and ulcers. The drug has been produced at the botanical section of University College, Dublin, by Drs. Oliver Roberts, M.Sc., and Diarmuid Murphy, M.Sc., who were assigned the task of producing peni-cillin by the Eire Medical Research Council in January. Labouring under considerable difficulties (being without the help of skilled assistants), the two doctors set to work using agar produced in Eire. They could not even import the mould strain and test organism from England owing to war-time restrictions. After the first batches of penicillin had been made available from the Dublin laboratory, clinical tests were carried out in the city hospitals by specially selected teams of medical men, and results have been made available to on the Irish medical journals. The two reseaves workers are now producing fresh quanti of the drug every five or six days. Det of their work have appeared in the Ameri Press, with the result that one of the lar drug manufacturers in the United St. has written inquiring about the method production in Dublin. The Eire Med Research Council has extended its grant the continuation of the work until the of the year.

Employees to Approach Ministry Direc Speaking at a meeting of the Newca Branch of the Association of Pharma ical Employees, on June 25, Mr. M. Jack (a member of the National Advisory Cou of the Association and of the Cen Pharmaceutical War Committee) discle that the consultative committee repres ing the A.P.E., the Association of Scien Workers and the National Union Distributive and Allied Workers, "co not accept the view that the Joint Stand Committee of the Pharmaceutical Soc and National Pharmaceutical Union, a present constituted, could speak for ployees." It was proposed, he said, discussions should take place direct the Ministry of Health, urging the need strong employee organisation. The fur mental issue for employees was recogniby the Trades Union Congress and organ tions affiliated thereto. For the first to proposals concerning pharmacy were be submitted to the T.U.C., and this wo have the result that, when legislation framed, the contacts now being made we ensure that the views of employee phar cists were taken into account. The co tions in retail pharmacy in the future we have to compare favourably, he said, v those in public services, but there wa need for the proper recognition of the pr pharmacist. The establishment of rate pay that would assist in stabilising p macy in the post-war years was occup both sides of the Joint Industrial Col for Retail Pharmacy at the present t Now, with a larger number of wo entering the profession, the principle equal pay for equal work should be es lished, and women themselves should prepared to give practical support to t: union organisations. Employees, he cluded, could only play their part in fu developments through the trade u movement. Mr. M. Webster (secretar the Newcastle Branch of the Pharmaceu Society) occupied the chair at the meet

TOPICAL REFLECTIONS

nings in Australia

wo attractive accounts of openings for macists in Australia (pp. 45, 52) merit careful consideration of young qualified le who wish to make the best use of The outlook powers after the war. proprietors of small pharmacies in Great ain is, it must be admitted, not alto-Three factors "leap to er promising. ves." The beginner, anxious to lay out capital to the best advantage, cannot pete on equal terms with large limited panies for the possession of a lease in a ninent shopping centre; there is already reshadowing of limitation in the pered number of shops; and there will be ght—perhaps a prolonged fight—to ent bureaucracy from obtaining a nglehold on commerce. For the past ty years or so knowledgeable friends e given me to understand that Australia land of opportunity for the young; and opinion is borne out by your contribu-'statements. The author of the article Queensland has had the good fortune to with wholesalers so generous as to ear altruistic: as far as that part of the ld is concerned, we must really revise old maxim that there is no friendship in ness. While some men work best in a n, there will always be others whose bent owards individual adventure. Experiin warfare tends to strengthen this t. During 1914-18 I had evidence of the ing that a return to the routine of ordincommercial life would be irksome after strenuous life of one of the Forces. e, then, is a practical suggestion for the erprising.

ıburn

he monograph on sunburn in the third ustry of Health Bulletin for Pharmacists 38) is, if internal evidence may be sted, not written by a pharmacist. she) would have been more interested nethods of preventing and alleviating the cts of excessive exposure to direct sun-Though it is some years since I iced any original work in either of these ections, I may recall the fact that empts have been made in clinics to obtain gthened exposure to ultra-violet light hout the production of erythematous aptoms. Fluorescent solutions of various aposition have been used, but opinions their effectiveness are far from unani-The incalculable factor appears to the sensitivity of the patient's skin, a

factor tending to upset ideas derived from the behaviour of solutions tested apart from the human subject. Substances such as cadmium sulphide, "phosphorescent stimulating" rather than yielding fluorescence, have also been tried. It is hardly necessary to add that sunburn can be a very troublesome ailment. For a comprehensive selection of applications to be used after sun-burning, "Pharmaceutical Formulas," Volume II, may be consulted.

Dalton

Your readers owe Mr. H. Price thanks for remembering the centenary of John Dalton's death, and for giving so concise an account of his career (p. 39). Much might be written on this pioneer in chemistry: those who wish to refresh their memories about him will find noteworthy appreciations in Mr. J. H. Franklin's address from the chair of the British Pharmaceutical Conference in 1931 (C. & D., 1931, II, 93-94) and in an article by the late Mr. William Kirkby on pp. 16-17 of the same volume. It is of interest to remember, at a time when the benefits of university education are becoming so widely available, that neither Dalton nor Priestley, situated as they were, would have been admitted to either of the then existing English Universities. "How can a man be hid?"—a saying attributed to Confucius comes to mind. The lectures on pharmaceutical chemistry mentioned by Mr. Price were, it is satisfactory to know, given a publicity quite extensive for those days: they were advertised in the "Manchester Guardian" of December 4, 1824, and a syllabus was printed. Tickets for the first course of "about fifteen" lectures cost a guinea each. It was announced that the lecturer, after explaining the first principles of chemistry, would "proceed to apply them" to investigations respecting the Materia Medica, and to other purposes relating to the profession." His lectures, though much appreciated by his colleague Thomas Turner, F.R.C.S., were, it appears, not quite so highly esteemed by some of his students, for beginning at 7 p.m. they were likely to continue for two or even three hours. Some of the men who passed through his laboratory were distinguished in later life: the names of Lyon Playfair, Angus Smith, John Edward Taylor and James Woolley are still familiar. It is appropriate that a street in the heart of Manchester bears the name of this great citizen and scientist. Xrayser

LEGAL REPORTS

Unlabelled Drink- and Smoke-habit Cures. -At Colwyn Bay sessions on July 5, William Porritt, who also traded under the name of R. Fear, 25 Lawson Road, Colwyn Bay, appeared on three summonses of selling preparations claiming to cure drinking and smoking habits, without affixing labels or enclosing leaflets describing the constituents. An inspector of the Society was stated to have written to the Lawson Institute, Lawson Road, applying for details of the drink-habit cure. Asked to fill in a questionnaire as to health and family medical history, she did not do so, but sent fi, for which she received a number of powders in blue and white paper coverings. The powders could be secretly administered, it was claimed, in tea, milk, or any beverage. They were found to contain potassium bromide and lactose, and were merely mild sedatives. The second case concerned a cure for the smoking habit. After sending fi, another inspector of the Society received a packet of tablets of which iron was the main constituent. In the third case application was made to a Monomark address in London. but the reply came from R. Fear, Colwyn Bay. For the defence it was argued that the summonses related to medicines; medicines were a cure for an ailment, disease, infirmity, or injury. The preparations were a cure for a habit, and the analysts' certificates had no bearing on the case as they were not claimed to be medicines, and it was contended that there was no case to answer. A fine of £2 was imposed on each charge, plus £5 5s. costs. Notice of appeal was given.

Inhalant Sold at Market Stall.-At Hitchin police court, on June 27, Ralph Toyor, Leighton Buzzard, pleaded not guilty to charges of selling a preparation Sniftit (claimed to relieve headaches, toothache and neuralgia when inhaled), without a label bearing the appropriate designation of the substance or a description of its ingredients, and of selling it from a stall at Hitchin market place. The preparation was described on the bottle as "Sniftit, an improvement relating to smelling salts,' and as "the only sure cure for toothache, headache and neuralgia." A card above the stand bore the words, "Prov. Patent: This is not smelling salts but authorised by the Board of Trade as an inhaling medicine. An inspector of the Pharmaceutical Society bought a bottle for 2s. 6d. and revealed his identity. Mr. Toyor then produced two letters from the Board of Trade relating to

the sale of the article as a toilet preparati The letters replied to a request from defendant by stating that the preparat was classified as a medicinal preparation ; was not subject to the Toilet Preparati Order, 1943. The inspector examined preparation and came to the conclusion t it contained cotton wool impregnated w ammonia and some other substance; had since been analysed. Defendant sta that he was a coachbuilder by occupat but had placed the preparation on market several months ago, after trying out on friends. It contained ammonia, oi eucalyptus, oil of cloves, and colour matter, and he claimed it was very effecti He was fined £2, with £1 is. costs, on ea charge.

Halibut Oil in Tonic Syrup.—A fine of £ with £8 18s. 6d. costs, was imposed at De bury borough court on July 4 on McClu Young & Co., Ltd., manufacturing chemi-Bollo Bridge Road, London, W.3, for offence against the Food and Drugs A 1938, in falsely describing on a label contents of Crescendo vitamin tonic syr A plea of "Not guilty" was put forwa Evidence was given that on April 24 a fo inspector visited the pharmacy of the Debury Pioneers' Industrial Society, Ltd., Northgate, and there purchased th bottles of the syrup. On the labels of bottles was a formula stating what contents were, and included in the form was halibut liver oil, M 8 for each fl. oz. analysis, it was found there was only M oil in each fl. oz. The chief chemist for Mess McClure, Young said the company had be established about twenty years, and vitamin tonic syrup was made under personal supervision. The firm purchas vitamin concentrate containing vitamins and D and, by using it, the syrup had be made stronger with vitamins A and D that made with halibut liver oil. The cost v actually more than if halibut liver oil h been used. At one time the company h used halibut oil, but when the oil becar short in supply they had started usi vitamin concentrate. Then, when vitan concentrate had become short, they h used halibut oil again. Actually they h two types of labels, one for when halit oil was used and the other for when vitan concentrate was used, and possibly twrong labels had got on to the bottl The magistrates announced that they fou the case proved.

TRADE NOTES

onic Cup.—Cheritone cherry-flavoured c cup is available from the Cheritone Ltd., 149 Farringdon Road, London,

nti-blight Spray.—George Monro, Ltd., tham Cross, Herts, direct attention to sprayable cuprous oxide as a preventive light on potatoes and tomatoes.

fty Recipes.—"What You Can't Get— Can Make" is the slogan put forward Verdiers, Ltd., in recommendation of r booklet "Sales and Salon Profits," which they invite inquiries.

oliday Closing.—The offices and works Lofthouse & Saltmer, Ltd., Hull, will closed from July 29 to August 7, inclu-During this period only urgent lical orders will be attended to.

nquiries to Wholesalers in Future. ipax, Ltd., Belvue Road, Northolt, dlesex, point out that there is no sole ributing agent for Tampax, inquiries which should be sent through whole-

eliveries Delayed.—Owing to heavy and and bottle shortage, Andrews ital Co., Hampden Park, Eastbourne, e that they are much behindhand with veries of the 1s. 1od. size. Refills and the ler size can be dispatched by return.

ole Distributors.—Johnson Agencies prietaries), Ltd., Clarendon Works, ydon, state that they are the sole ributors for Nocturn tablets. Is are at present available for chemists have had stocks.

Mosquito Repellent.—Dimethylphthalate, ich is claimed to be the most effective squito repellent, is now being manutured in a new plant specially conacted by Reichhold Chemicals, Inc. At sent, all supplies are being reserved to et the needs of the Armed Forces.

Purchase Tax Changes.—Glaxo Laboraies, Ltd., Greenford, Middlesex, state t, by a decision of the Customs and cise authorities, Glucodin is now exempt m purchase tax. Stock bought as from y 10 is tax-free, but stock already in the ids of retailers should be sold plus tax. midin becomes subject to purchase tax from July 10, as follows: Pack of fifty lets, 5s. 6d., plus 8d. tax.

Derative Procedure Diagrams.—Johnson Johnson (Great Britain), Ltd., Slough, h the collaboration of the staff of the

U.S. publication, "Surgery, Gynecology and Obstetrics," have issued, under the title "Operative Procedure," a collection of 100 pages of illustrations showing various stages in typical standard operations. The life-like diagrams in line-engraving on good paper are noticeably different from those usually found in surgical works, and it is obvious that much care has been taken by surgical experts to choose the essential steps in the operations for illustration. The book should be as popular in this country as the original volume is in America.

Business Changes

DR. G. O. RICHARDS, Ph.D., B.Sc., A.R.I.C., has joined the staff of Allen & Hanburys, Ltd.

COLGATE-PALMOLIVE PEET Co., Jersey City, U.S.A., has appointed Mr. Roy W. Peet to be vice-president in charge of research and development.

Mr. A. REDDINGTON SAMUELS has been appointed general sales manager to W. J. Bush & Co. (Canada), Ltd., Montreal. Mr. Samuels joined the company in London in 1915 and went to Canada in 1931.

Application for Licences.—Mr. John Skilling has applied for a licence to continue selling made-up medicines (among other goods) at a business previously carried on by Elizabeth R. Jones at 76 Cumming Drive, Mount Florida, Glasgow.

Proprietary Articles Trade Association

Alterations to Protected List.—British Schering, Ltd., Atophan tablets, tubes of twenty, 40s. 6d. doz., tax 6s. 9d. doz., inclusive retail price 5s. 1d. Atophan balsam, 40s. 6d. doz., tax 6s. 9d. doz., i.r.p. 5s. 1d. Neutralon, 3½-oz., 29s. 3d. doz., tax 4s. 10½d. doz., i.r.p. 3s. 8d. Neutralon belladonna, 3½-oz., 31s. 6d. doz., tax 5s. 3d. doz., i.r.p. 3s. 11d.

Ridge's Food, Ltd.—Manufacturers are now

marketing only a 1-lb. size tin of Ridge's food, at 2s. 6d., 24s. doz. (exempt from tax).

C. & D. QUIZ NO. 32

- 1. Who was the first professor of pharmacognosy to the Pharmaceutical Society?
 - 2. What is Berlin blue? 3. What is pink salt?
 - 4. What is psilomelane?
 - Who first isolated arsenic?
 - 5. Who first isolate 6. What is mastic?
 - 7. What is mephitic air?
- 8. Who discovered hydrogen peroxide?
 9. What does the suffix "wich" ("wych")
- mean in English place names? 10. What is minium?
 - (Answers on p. 78)

BIRTHS

BILLINGTON.—At Edgbaston maternity home, Birmingham, 15, on July 5, the wife of F. A. Billington, M.P.S., 17 Langley Road, Langley Green, Oldbury, of a son.

Welsh.—At Avoca, Bellsdyke Road, Larbert, on June 30, Minnie (*née* Reid), the wife of John T. Welsh, M.P.S., of a son.

DEATHS

Brocklesby.—On June 18, Mr. David Brocklesby, M.P.S., 7 Stotford Road, King's Heath, Birmingham, 14, aged sixty-six.

CARMODY.—At Ferbane, Offaly, Eire, recently, Mr. John Joseph Carmody, M.P.S.I. Mr. Carmody qualified in 1934.

CROOKE.—In June, as a result of enemy action, Miss Olive Louisa Crooke, M.P.S., 12 Victoria Mansions, Victoria Street, Christchurch, New Zealand. For many years Miss Crooke was in charge of the pharmaceutical department of the Lady Hardinge Hospital, Delhi, India.

DOCKER.—At his home at Amersham, on July 8, Mr. Frank Dudley Docker, C.B., one of the founders of the Federation of British Industries, and its first president.

Levesley.—On May 16, Mr. Charles Ewart Levesley, M.P.S., 65A Glackwell Street, Kidderminster. Mr. Levesley qualified in 1912.

Macpherson.—At Edinburgh Royal Infirmary, on July 3, John Henderson Macpherson, Ph.C., M.B., Ch.B.Ed., 2 Craiglockhart Road North, Edinburgh, aged forty-six. One of the most accomplished of the younger Scottish pharmacists, Dr. Macpherson was apprenticed in his native Perthshire village of Comrie, qualifying as a chemist and druggist in 1921 and as a pharmaceutical chemist a year later. Following upon retail experience in Scotland and in the south, he established a new dispensing business at Craiglockhart Road in 1932. Always an exponent of pharmacy at its best, he was appointed to the Scottish board of examiners of the Pharmaceutical Society in 1936, and continued as an examiner until he graduated in medicine at Edinburgh University in January 1944, having completed his five years' study while he remained in business. It was a mark of distinction that he was at once appointed a resident physician at Edinburgh Royal Infirmary, but lung trouble developed, to which he succumbed after six months of illness. In the war of 1914–18 served in the Royal Flying Corps. At cremation on July 6, the Pharmaceut Society was represented by Dr. (resident secretary in Scotland), and am many other prominent pharmacists attended were Dr. J. Blackie (chair of the board of examiners); Mr. W. Beattie (a member of the North Bri executive, and chairman of the Socie Mr. John H. Tainsh (Scottish Pharmace cal Federation); Dr. M. V. Hunter; Mr. David Harley. Dr. Macphersor survived by a widow, a son and a daugh

Newton.—Recently, Mr. Thomas Newton, M.P.S., 35 Norlands Aver Anlaby High Road, Hull, aged sever seven. Mr. Newton qualified in 1890 a an apprenticeship with his brother, the Mr. G. R. Newton, M.P.S., at With Hull, and commenced business on his account in Chariot Street, Hull, in 18 In 1914 he moved to Marfleet. Mr. New was secretary of the Hull Chemists' Assotion for a number of years and its presidin 1921.

STEVENSON.—By enemy action in J1 Mrs. Vera Stevenson (née Menchik), wio of the late Mr. R. H. S. Stevenson, M.J Mrs. Stevenson had been the holder of Women's Chess Championship of the Wosince 1926.

WILLIAMS.—In June, as a result of ene action, Mr. Francis Christopher Willia aged fifty-eight. Mr. Williams qualified chemist and druggist in 1912.

WILLS

Mr. WILLIAM ADAMS, J.P., Ph 30 High Street, Shrewsbury, left £25,1 with net personalty £8,663.

MR. EDWIN GRAHAM, M.P.S., 426 Pelam Road, Burnley, Lancs, left £4,2 with net personalty £2,905.

Mr. James McBryde, M.P.S., 198 Mal Road and 34 St. Botolph's Street, Chester, left £3,864, with net persons £1,077.

MR. WILLIAM THOMAS HOPPS, M.P. Little Court, Glan-y-mor Road, Penrl Bay, Carnarvon, left £32,279, with personalty £23,265.

DR. GEORGE LESLIE EASTES, M. B.Sc., Gerrards Cross, Bucks (chairm Laboratories of Pathology and Pul Health, Ltd., Harley Street, London, left £32, 256, with net personalty £13,627

COMPANY NEWS

EDANA PHARMACEUTICALS, LTD. (P.C.). pital £100. Chemists, druggists, perrs, etc. Joseph Barker, director. R.O.: ive Mills, Longside Lane, Bradford.

H. Hurst (Chemists), Ltd. (P.C.).—tal £1,000. Chemists, druggists, etc. nas and Flora Hurst and John H. Hurst, S., directors. R.O.: Codnor, Derby.

H. COOPER, LTD. (P.C.).—Capital to. Chemists, druggists' sundriesmen general merchants. Max Gottschalk, Knightsbridge, London, S.W.II, and nas Marns, M.P.S., directors.

AZELL CHEMICAL PRODUCTS, LTD. (P.C.). upital £500. Manufacturers of and ers in chemicals, drugs, etc. George H. rez and Alexander S. Gay, directors. : 30 City Road, London, E.C.I.

est End Pharmacy, Ltd. (P.C.).—
tal £500. Wholesale or retail chemists, cians, etc. Mrs. Liesbeth Tell and mas Hill, M.P.S., directors. R.O.:
wer John Street, London, W.I.

obert Kennedy (Coatbridge), Ltd.
.).—Capital £500. To acquire a chembusiness carried on as "Robert Ken"at Coatdyke. Directors not named.
.: 527 Main Street, Coatbridge.

HEODORE ST. JUST & CO., LTD. (P.C.). apital £1,000. Manufacturers of and ers in aromatic and fine chemicals, etc. y A. Desvaux and Irene J. Soper, ctors. R.O.: I Shorrolds Road, Lon. S.W.6.

LBERT Moss & Co. (ESSENCES), LTD.
.).—Capital £3,000. Manufacturers of dealers in essences, chemicals, etc.
. Emma J. and William E. E. C.
cman, and Clara Laycock, directors.
.: Higher Hillgate, Stockport.

.. J. White, Ltd.—The report of the ctors for the year ended March 31, we that the balance of the profit and loss ount amounts to £35,113, from which leducted £15,130 for a final dividend ady paid, leaving £19,983. Net profit ounts to £72,443, making a total available profit of £92,427. This has been approted as follows: Interim already paid, 50, and reserve for taxation, £48,000, ing an available balance of £35,677. of this balance the directors recommend payment of a final dividend of $7\frac{1}{2}$ per ., making $12\frac{1}{2}$ per cent. for the year ried forward, £20,547.

PERSONALITIES

Mr. Joseph Gillett, M.P.S., was elected * president of Blackburn Rotary Club on July 5.

Mr. J. J. Stone, M.P.S., 257 Niddrie Mains Road, Edinburgh, was recently elec-

ted a member of Edinburgh Town Council. Mr. Stone qualified in 1920. In addition to his civic activities, he is well known as a dog fancier, specialising in Kerry Blues. At a Midlothian Red Cross Show on June 24 his dog "Inshowen Tim" gained three first awards, two seconds, and



special award for the best dog weighing over 25 lb.

CAPTAIN ERIC W. BARLOW, son of Mr. John V. Barlow, M.P.S., I Accrington Road, Burnley, Lancs, won the tennis championship at the Royal Iraq Sporting Club recently.

Dr. N. P. Allen has been appointed superintendent of the metallurgy division, National Physical Laboratory. Since 1935 Dr. Allen has been senior research metallurgist to the Mond Nickel Co., Ltd., Birmingham.

Professor H. Raistrick, F.R.S., has been appointed honorary scientific adviser on penicillin production to the Ministry of Supply. Professor Raistrick is a member of the General Penicillin Committee and professor of biochemistry at the London School of Hygiene and Tropical Medicine (University of London).

DR. WILLIAM HENRY Dow was awarded the gold medal of the American Institute of Chemists, 1944, at the annual meeting of the Institute recently. Dr. Dow is president of the Dow Chemical Co., a director of the American Chemical Society, and a member of the American Institute of Chemical Engineers.

Mr. H. M. Hames, M.P.S., and Mrs. Hames, 14 Granville Street, Boston, Lincs, celebrated their golden wedding on July 5. Mr. Hames received his training at Cambridge, and went to Boston forty-five years ago, first as manager to Mr. C. F. Fooke, M.P.S., later as proprietor of the business at 65 West Street which he still carries on.

NATIONAL PHARMACEUTICAL UNION

A MEETING of the Executive of the National Pharmaceutical Union was held in London on June 27 and 28, Alderman W. J. Tristram in the chair. Reports of meetings of the Accounts and Price List Committees were received and approved. The secretary's report upon matters that had arisen since the previous meeting was received.

Proposals for Working Conditions

THE SECRETARY reported that the joint negotiating committee of the Joint Industrial Council for Retail Pharmacy had prepared a schedule of minimum wages and working conditions for submission to a meeting of the full Council on July 3. Although the schedule had been agreed by representatives of both the employers' and trade-union sides on the committee, it might not be acceptable to the full representation of one or both sides of the full Council. Arrangements had been made for the employers' side to meet to consider the schedule in detail, and instructions were given to the N.P.U. representatives as to the policy they were to adopt at this meeting and that of the full Council. In view of the postponement of the N.P.U. Branch Delegates' Conference, consideration was given to the steps that should be taken to secure the necessary mandate from branches to support this programme of wages, and it was resolved to defer full consideration of the matter until the next meeting of the Executive.

Early Closing Association

The Executive Committee considered a request that the N.P.U. should send to the Home Secretary an expression of opinion in support of a resolution adopted at the annual meeting of the Early Closing Association in January, pressing for an amendment of the existing Shops Act by advancing by one hour the hours of 7 p.m., 8 p.m., and 9 p.m., provided in section 5 (2) of the 1912 Act, and section I (1) of the 1928 Act respectively. It was resolved to support the resolution, and the secretary was instructed to send a letter to the Home Secretary accordingly, with the proviso that it should continue permissible to supply urgent medicines and medicinal and surgical requisites after the normal shops' closing hour, as under the present Act.

Business Services and Branch Organisation

Further consideration was given to proposals (connected with the purchasing of businesses) submitted by the Business

Services Committee to the Executive previous meeting. The proposals were considered by the solicitors to the U and the secretary was authorised to o Counsel's advice thereon if neces. The Executive next considered whetheview of the position of the N.P.U. a employers' organisation, the present br system of local organisation gave a factory results from the represent point of view, or whether any action as be taken in regard to the appointmen local branch officers. It was resolve refer the matter to the Special Organisa Committee.

Sixth Addendum Ointments

The Secretary reported that, on 31, Mr. Noble had called on Dr. Hamp (Secretary, British Pharmacopæia mission) to urge that in the event of change being made in the formula Sixth Addendum Ointments, as lor period of notice as possible should be g so as to keep duplication of stock Subsequent to this inter the General Medical Council had exter indefinitely the period during which alternative formulas might be used, it had been arranged with the Ministr Health that, for National Health Insur purposes, pricing offices should, further notice, price for the old ointments unless the chemist stated the prescription that he had dispensed Addendum preparation.

Veterinary Preparations

The Secretary reported upon a corence he had attended with representat of the National Veterinary Medical Assotion, at which the question of distribution of certain veterinary products had be considered. Arising out of the meet arrangements had been made whereby the products under consideration would made available for distribution through the products upon terms that would enothem to supply a veterinary surgeon the price at which he would norm obtain these products from the mafacturers concerned.

It was reported that approximathirty claims on the Air Raid Mur Assistance Fund had been notified sithe previous meeting. One had becompleted by a payment of fro; details the others, some of which were likely involve total-loss payments, were await

CHEMISTS' FRIENDS ASSOCIATION

ETING of the council of the Chemists' ds Association was held in London on 20, Mr. F. J. Smith in the chair. council accepted an application for the sion of L.82 diabetic lemon and orange shes in the Chemists' Friends list, and orised the directors of N.P.U., Ltd., to lete an agreement with the manu-

rer concerned.

meet the requirements of the Registrar iendly Societies in respect of registraas a trade union, the new draft of Rule f the proposed new constitution and of the Association, as submitted by secretary, was approved. The rule ed precisely the form of security in h the funds of the Association could be sted.

icil Representation and Membership

ie Secretary reported that Mr. W. T. r, Aberdeen, had been appointed a esentative of the Scottish Pharmaceu-Federation in place of Mr. John Weir; appointment had been made at a meetof the Federation held in Glasgow on 17. An application for manufacturer ibership of the C.F. Association by a of manufacturing chemists in Yorkwas deferred to the next meeting to le the secretary to obtain further mation about products offered for usion in the C.F. List. The following ications for additions to the schedules xisting C.F. agreements were approved: re Medicinal Products, Ltd., Codasphen gesic tablets and Codasphen analgesic ets (extra rapid); J. W. Simpson mist, Ltd., Simpson's Niblain (two-way rnal and external chilblain remedy). A lufacturer whose name is already uded in the list submitted an application the addition of a non-alcoholic tonic e to his schedule; the application was accepted. Moore Medicinal Products, ., asked the council to delete Sperola micidal tablets from the C.F. list, and riew of the special circumstances appering to this matter the request was nted.

orrespondence between a C.F. manuturer and the Central Price Regulation nmittee about trade discounts was conered by the council, which resolved to ruct the secretary to arrange an interw with the manufacturer concerned, ereby the matter could be discussed and urther report submitted to the Council its next meeting.

The sale of a C.F. product in the grocery department of a co-operative society, which also owned and controlled registered pharmaceutical premises, was reported. Correspondence had passed between the manufacturer and the society concerned, but the reply of the manufacturer had not been satisfactory, and it was therefore resolved that the secretary should be instructed to arrange an interview with the manufacturer and report back.

RECENT RESEARCH

Vivicillin in Veterinary Practice.—Preliminary reports are given by Lustig-Lendva ("Veterinary Record" May 27, p. 178), of successful experiments, extending over four months, with two proprietary preparations of living Penicillium notatum: Pennotin (P.T.) for external use, and Vivicillin (P.C.) for parenteral use. Approximately 100 cases were involved. In feverish conditions in mice and guinea-pigs two or three injections of P.C. usually effected a cure. In pneumonia, rhinitis, and against the secondary invaders in canine distemper, highly satisfactory results were obtained—though no definite effects were achieved in canine meningitis. Pennotin (P.T.), applied in gauze packings to open uncleaned wounds was claimed to be not without benefit, and the good effects were not impaired by debris; in some instances the administration appeared to promote healing.

Viscosity and Particle Shape.—Lauffer, in a paper read at the annual meeting of the American Chemical Society in April; described the use of tobacco-mosaic virus as a material for use in testing the relation between viscosity and macromolecular The virus particles are rodstructure. shaped bodies large enough to be seen and to be accurately measured with the electron microscope. In solution, the particles are known not to be appreciably hydrated. Two preparations at different stages of aggregation were examined. The average ratio of length to thickness of the particles of each preparation was determined by direct measurement of the micrographs. results are claimed to provide "a reasonably unambiguous direct experimental confirmation of the correctness of Simha's equation" (a quantitative mathematical expression relating the viscosity of a suspension of rod-like particles to the ratio of length to thickness of the rods and to their degree of hydration).

RE-EXPORT OF IMPORTED ESSENTIAL OILS

Following are details of a scheme for the re-export of imported essential oils, which has been approved by the Ministry of Food. The Ministry state that they propose that releases of oils against export licences shall commence from August 1, 1944, and that for the first quarter, beginning on that date, the following imported oils will be available for export: Distilled oil of lime, oil of eucalyptus. It is hoped to make available, later on, certain other oils which will be notified to the trade in good time.

(1) The Ministry of Food have informed the London Chamber of Commerce that they expect to be able later this year to release for re-export purposes reasonable quantities of certain essential oils now being imported under the Essential Oil Control Scheme. (2) The oils available for re-export will be announced from time to time, and the following procedure has been arranged by the Ministry of Food in consultation with the Essential Oil Advisory Committee and the Essential Oil Importers' Section of the London Chamber of Commerce. (3) The announcement of oils available for re-export will be made as far ahead as possible, and in any case not less than one month before the date on which the granting of export licences will be considered. The prices at which the oils will be available to exporters will be communicated by circular to all datum period distributors of each particular oil. Exporters will, of course, appreciate that, in inviting orders from overseas, they must necessarily make it clear that acceptance is conditional upon an export licence being obtained.

Definitions

(4) The following definitions will be applicable: Exporter.—By an "exporter" is meant the trader who obtains the order from the overseas importer, or the trader who supplies the duly accredited buying agent in the U.K. of an overseas importer, such agent being remunerated exclusively by a commission from his overseas principals. Datum Period Distributor.— By "datum period distributor" is meant, as in the case of the Essential Oil Control Scheme for home trade, the trader who entered oils of the kind in question for Customs for importation during the two years ended August 31, 1939. Approved Representative.—By "approved representative" is meant a trader who, under the Essential Oil Control Scheme for home trade, has been appointed by an overseas shipper to act as his representative in the importation of oils into the United Kingdom, or who is qualified under the scheme to act as an approved representative for oils imported by the Ministry. (Note: It is possible for an exporter to be a "datum period distributor" or an "approved representative" or both.) Supplier.—By "supplier" is meant any trader who, not being a datum period distributor of that oil, is nominated by the exporter to supply him with oil.

Export Licence

(5) The export of all essential oils will of tinue to be subject to Board of Trade exp licence, for which application should be m on the usual form to the Export Licens Department, Board of Trade, 3 Bank Buildin Princes Street, London, E.C.2. (6) The expos must attach to the application the original or from overseas, e.g. cable, letter, etc., wh will be returned after the application has b considered. The order must bear a date more than two months before the date of application. In the case of large comporders, a letter from the applicant giving particulars of the order, so far as essential are concerned, may be acceptable but proof n be required. (7) The exporter must also forw with his application a letter nominating datum period distributor or supplier in United Kingdom from whom he wishes to ceive the oil and this will, so far as possible, the source or sources from which he obtained pre-war supplies of that oil. (8) If a licence withheld, the applicant will be informed by Ministry of Food, if the reason is that the exp quota of the oil is exhausted, or because export price quoted cannot be approved.

Provision of Oil

(9) A quarterly quota will be released of ea oil that can be made available for export. Wh applications for licences for any one oil exce the quarterly quota, the oil will so far as is pr ticable be allocated on a pro rata basis agai applications at the sole discretion of the Minis of Food. (10) If, on the other hand, application received up to the date announced are for l than the quantity earmarked for export, furtly applications will be considered at any time to the commencement of the next quarter so lo as there is a balance of oil available. (II) If t exporter's application is not received in time him to receive a share of the quota for the for that quarter, or if his application for tl quarter is not granted in full, his application renewed within four days of the beginning the next quarter will receive special conside tion. (12) The Ministry will make the oil ava Control to release oil from stock held under t control scheme; such oil will only be releas to a datum period distributor of that oil. If t trader named by the exporter is not a d.p for that oil, the Ministry will ask the nam trader to nominate someone who is a d.p.d. I that oil. The Control will then be requested : lease from a stockholder to the appointed d.p

Prices and Margins

(13) As previously mentioned, the prices be charged by approved representativ ("a.r.'s") to the d.p.d.'s will be communicat by circular to those concerned and in the ca of an a.r. delivering to the appointed d.p.d. will include the a.r.'s usual margin and a sum cover the landing charges, rent, interest at

yed allocations or buffer stock commission re incurred. This additional sum, which take the place of the fixed contribution, will ayable to Allocations Control on completion he delivery to the d.p.d. The same conditions apply to a stockholder who may be a d.p.d. not an a.r. The margin of d.p.d.'s will be same as is allowed for the home trade control, where repacking is necessary the scale will hat laid down in Circular No. 9 of the Reguns for the Importing and Distribution of ential Oils, dated May 1, 1944, with any

amendments that may from time to time be published by Allocations Control. (14) If the d.p.d. is supplying the exporter through a supplier named by the exporter, he will be required to share his margin in equal proportions with that supplier: except that, where a broker is nominated as the supplier, he will only receive the normal selling brokerage of 1 per cent. from the d.p.d. and his buying brokerage of \(\frac{1}{2}\) per cent. from the exporter. (15) Exporters will be permitted to fix their own prices to their customers. The exporter may have to justify price.

NORTH BRITISH BRANCH ANNUAL MEETING

annual meeting of the members of the armaceutical Society resident in Scotd was held in Edinburgh on June 28, John Anderson (vice-chairman) pre-

ng.

HE VICE-CHAIRMAN said he found himpresiding over the annual meeting in regrettable absence of the chairman. Hay, Aberdeen). A suggestion had ne from Mr. Hay that a memorial to the 2 Mr. Rutherford Hill—something in the m of a plaque—should be prepared and d in a prominent position at 36 York too. Mr. Hay's suggestion was, he thought, ood one which should be remitted to the w Executive to be carried out.

eparations for the Future

The annual report which had been subtted to the Council, approved, and culated, did not represent, said Mr. derson, anything like the full volume of rk done by the Executive. Much useful rk was done in committee and behind scenes by the secretary and staff; no e ever appealed to York Place in vain. e felt members had no reason to be at all ssatisfied with their activities, handipped as they were with war-time diffi-lties. No immediate results might have crued from their labour, but they knew ey had prepared the ground, had planted seed, and that something might come up nich would benefit posterity in spite of ssible departmental "tares." The Execuve had, of course, anticipated the Beverge Report and the Government's Health an and had their own Health Services ommittee. Since then, however, the Scotsh Joint Committee, so wisely planned and eated by the chairman of the Standing ommittee (Mr. Bennett), had made the nall committee redundant. He thought it as imperative now that pharmacists lould throw off an apathy which they all new existed and was really chronic.

The scrutineers reported that 3,092

nomination papers had been issued by the resident secretary. Sixty-four members had been nominated, of whom forty-three signified their willingness to act if elected (see *C. & D.*, June 24, p. 665).

On June 9, 3,078 voting papers had been issued. Of these 862 were returned, of which twenty-four were informal. The following

was the result of the poll:-

med the recent of the point		
GILMOUR, Andrew Brown		479
BENNETT, Frederick W. M		469
GUTHRIE, Thomas		458
JAUN, James		451
CULBERT, William Spence		404
DRUMMOND, Charles Gray		396
MACKENZIE, Thomas		384
ANDERSON, John	'	367
McADAM, Robert BEATTIE, William Andrew		355
BEATTIE, William Andrew		341
HAY, William Fowlie		319
MILNE, James Robertson		301
MURRAY, Alexander		292
McDONALD, John Bayne		290
COWIE, Robert James		268
CULBERT, Hugh Spence		263
LAMB, George Thomas		257
WALKER, Frederick		254
Buick, Charles Alexander		253
MAIR William	: .	252
MAIR, William RITCHIE, Andrew Wemyss		245
CAMPBELL, Colin		239
MILLER, Thomas Campbell		229
Hoмe, Sydney George		228
Elder, William Todd		226
MILLER, Elizabeth		220
Teesdale, James		218
Currie, David		214
Currie, Archibald		205
FARQUHAR, James		205
Fraser, Henry James		202
Spence, George Leith Shivas		192
Anderson, John Melvin		188
CLARK, James Smillie		173
ROBERTSON, Archibald		170
KERR, David		162
Williamson, James Montgomery		160
Marshall, Thomas		143
McKeylar, Alexander McIntyre		138
MILLER, Drysdale Peter Buchanan		135
Hughan, Samuel		121
SMITH, Thomas		IIO
Austin, Patrick Laurie		104
		- (

On the motion of Mr. Robson, seconded by Mr. Hall, the report was adopted, and the Chairman thanked the scrutineers.

The Chairman then declared that the first eighteen candidates (in bold type), together with the president of the Society (Mr. Frederick George Wells, London), vice-president (Mr. James Fallows McNeal, Amersham), and Mr. Adam Alexander Meldrum, Aberdeen, ex-officio, would constitute the Executive for the year 1944-45.

Discussion

Mr. Teesdale again urged the advisability of holding the annual meeting in the afternoon instead of the forenoon, and of holding it in various centres so as to enable pharmacists in other areas to attend. He thought more publicity should be given to the findings of the Executive on this subject. In connexion with the proposed National Health Service, one of the most important matters concerning pharmacists at the moment, he said, was remuneration, and he would ask the Executive to use its influence towards establishing a Joint Industrial Council for Scotland.

Mr. Hudson, Dumbarton, disapprov of the term "North British Branch" applied to Scotland; he thought it v quite out of date. He also thought the Scottish interests should be looked af by a Scottish pharmacist in Parliament.

Mr. A. B. Gilmour, Glasgow, suggest that the Executive election should be the same lines as the Council election.

MR. GUTHRIE, Glasgow, pointed out the a difficulty might arise in that the number of the North British Executive to be elect was dependent on the number of member of Council resident in Scotland. The disculty might, however, be got over and the matter was well worth looking into.

Mr. Boyd, Edinburgh, thought a comittee of the new Executive should formed to go into the whole question of t constitution, with a view to modernisation.

THE VICE-CHAIRMAN agreed that the points should be attended to and suggest that, in the first place, Mr. Meldrum as Dr. Tait might make a preliminary inqui in London and report back to the Executiv

On the motion of Mr. Ironside, a vote thanks was accorded to the chairman.

PUBLIC PHARMACISTS' N.H.S. MEMORANDUM

The following is the text of a memorandum on National Health Service issued by the Guild of Public Pharmacists.

1. The Guild of Public Pharmacists is of the opinion that only a comprehensive social medical service, under the direction of the State, can fully meet the health needs of the nation. They realise, however, that the introduction of such a scheme at the present time presents very great diffi-culties, and therefore welcome the proposals contained in the White Paper which, while falling short of the ideal, will undoubtedly lead to further developments in the direction of a complete social service. The Guild is fully in agreement with the principle that the service should be available to all, irrespective of means, and is prepared to co-operate in every way possible to secure a complete and efficient pharmaceutical service in the hospitals.

2. In dealing with the question of the supply of medicines to patients, it will be found necessary to consider separately the pharmaceutical requirements of the hospital services and of the domiciliary service. The hospital pharmaceutical service should be conceived as a unified organisation throughout the country; and its administration should involve qualified personnel at all levels. Ultimate responsibility to the

controlling authorities and the Ministe should not pass through medical or oth non-pharmaceutical channels. Administrive duties undertaken by pharmacist should not be limited to the functions of supplies or equipment officer, but a dire torate of pharmaceutical services should lest up, staffed by pharmacists and operatinat the Ministry and in each local authoritarea.

Standards of Qualification

3. Although no clear indication is give in the White Paper, it is reasonable t assume that no lower standard of pharma ceutical qualification than that require National Health Insurance under the scheme will be approved for the service a a whole; that standards at least as high shall be applicable to the hospital service is essential. It is, therefore, logical tanticipate that the pharmaceutical wor necessary in all hospitals will be undertake by, or be under the close personal supe vision of, pharmacists, and will be conducted in properly equipped pharmaceutical departments. In fact, it should be obligatory upon all hospitals participating in the service to employ an adequate nun ber of pharmacists and to provide the necessary facilities for this purpose. I majority of hospitals it will be necesfor the pharmacists to be employed time; only in the smallest hospitals ld part-time pharmaceutical service be ptable. It is not deemed advisable pharmacists should undertake such a duties as biological investigations, ography, clinical photography, etc. It be hoped that in the future all hospitals be of such a size that a minimum staff wo pharmacists will be required,

of Responsibility

The ranking of a pharmacist-in-charge ald be such that he is responsible only he governing authority of the hospital ervice to which he belongs. Subject to responsibility he should have complete hinistrative control of his department.

It seems reasonable to expect that, if grouping of hospitals occurs, the ing-up of central buying and distriing agencies for each group will be sidered. It is essential on the grounds fficiency and economy that the control the pharmaceutical sections of such in pharmaceutical should be Moreover, the experience of a pital pharmacist well fits him for emvment as a medical supplies and

ipment officer.

In the planning and administration the service provision must be made for ctive pharmaceutical advice and direcon all questions affecting pharmacy. nerally, pharmaceutical representation such bodies as the Central Health Seres Councils should include hospital as well as retail pharmacists. In the case the Joint Authorities (in Scotland, the gional Hospitals Councils and the Joint spital Boards) the pharmaceutical permel should be drawn exclusively from ranks of hospital pharmacists. rector of Pharmaceutical Services, with equate powers and status, should be in arge of the pharmaceutical work of each int Authority. In addition to such aried officers, consultative committees appropriately qualified pharmacists ould be set up at the various levels.

7. It will be seen, therefore, from 2, 3, and 6 above that the services of pharmats are essential in three main directions, mely:-

(a) Administration.—Directors of Pharmaceutical Services and members of advisory committees should be appointed from pharmacists of wide experience used to co-operation with medical personnel on terms of equality and familiar with methods of consultation

and negotiation with the governing bodies. (b) The purchase of drugs, dressings, instruments, appliances, medical equipment, etc., i.e. a Medical Supplies and Equipment Officer in grouped Joint Authorities' hospitals or the

chief pharmacist in a voluntary hospital. Such posts would be best filled by pharmacists already experienced in similar work under

existing hospital authorities.

(c) Practical work in connexion with the preparation, storage and dispensing of drugs, dressings, etc. This can be undertaken by any pharmacist acquainted with the requirements of hospital pharmacy.

8. The inspection of hospitals having been advocated in the White Paper, the Guild raises no serious objection, but makes the proviso that pharmaceutical departments should be inspected only by inspectors holding pharmaceutical qualifications.

Health Centres

9. No very definite indications have been given up to the present of the probable size and scope of the proposed health centres, it is impossible to give any detailed suggestions regarding the supply of medicine to patients attending them. Nevertheless, the Guild is strongly of the opinion that, in order that the maximum benefits shall accrue to the patients, a pharmaceutical department should be an integral part of every centre. Only by having a pharmacist in attendance on the premises can the doctors avail themselves fully of the consultative and advisory functions of the pharmacist. The advantage to the patients in being able to obtain their medicines on the spot is so obvious as to need no stress-Patients, however, should have the free choice of having their prescriptions dispensed at the centre or at their local pharmacy.

10. The Guild suggest that the practice at present in operation regarding the dispensing of prescriptions of hospital outpatients should continue. Undoubtedly a considerable number of the "casual" patients will, in future, go to the general practitioners or the health centres, instead of to the hospitals' out-patients' departments, but those requiring specialist treatment will also require specialised medi-cines, which can only be provided by the hospitals' pharmaceutical departments. The reduction in numbers and the provision of adequate dispensing staff will remove the principal objection to the present system,

i.e. excessive waiting.

11. Uniform conditions of service and scales of salaries, nationally applied, are urgently required for all pharmacists employed in hospitals.



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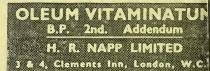


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JULY 15, 1944

NO. 3362

fact that goods made of raw materials short supply owing to war conditions are ertised in this paper or described in its orial columns should not be taken as an ication that they are necessarily available export.

nference Chairman's Address

E choice of "The Education of the armacist" by the chairman of the tish Pharmaceutical Conference (Mr. Brindle) as the subject of his opening lress is appropriate. As we have had asion to remark in former years, it is a dinal feature of the Conference that each irman in turn brings into focus a new pect of one or more of the many subjects th which the Conference is concerned; d Mr. Brindle, as a distinguished member the scholastic profession, has a right to Il attention to educational issues. In his ening paragraph he throws down a allenge by observing that, so far as he is are, no very active steps are being taken icially to follow the lead of the members of any other professions and prepare for the ture by carefully examining the present ucational position in pharmacy and anning for the future. Yet reports dicate that the council of the Pharmaceual Society gives considerable attention its examination syllabuses and makes imerous changes, actual or prospective, them. The chairman's meaning is, we fer, that the Council's educational policy for the present one of patching rather than of thorough overhaul. If this is so, what is the remedy? Is there anywhere in pharmacy a sufficient grasp of educational requirements as a whole? One possible step to take would be to call in educational experts to advise in integrating the requirements of pharmacy with those of other professions, and especially of the professions most nearly related to it. As Mr. Brindle points out, little notice was taken of pharmaceutical education by the Committee of Inquiry set up by the Council in 1937.

Quality of Entrants

Most of the general considerations in the address will obtain ready assent. Drawing on his experience, the chairman notes that pharmacy has attractions for "a considerable number of the better-educated pupils in the secondary schools." But the quality of entrants varies widely. It ranges "over all types from the lesser intelligent who are always struggling to pass their examinations and some of whom never qualify, to the highly intelligent who take everything in their stride, and, experiencing no difficulty, proceed to the higher examinations, eventually to acquit themselves with distinction . . . " As a member of a university, Mr. Brindle naturally emphasises the value of a university education in training a student "in such a way as to enable him to train himself" and in teaching him "to think along right lines." This type of education takes time, "and some technical training and immediate technical efficiency must be sacrificed for it." Nevertheless, the chairman is convinced that ultimately "the. properly educated student will become more efficient even as a technician than the one who has had a more or less intensive technical training." From these remarks we pass to the detailed proposals which form the larger part of the address.

The chairman is in favour of "a single registrable qualification to carry with it the title of Pharmaceutical Chemist." This proposal, though not new, is presented in a new light by being linked with an apportionment of time for the studies requisite for obtaining, in one case, the Society's diploma, in the other, a university degree. It will perhaps make this part of the address

easier to grasp if we present Mr. Brindle's time schedules in tabular form. Premising that the future student will leave school at eighteen, he outlines the following schemes—

Ph.C. Diploma

Leaving school at age \dots 18 Compulsory national service till age $18\frac{1}{2}$ or 19 Course for Ph.C. diploma till age $20\frac{1}{2}$ or 21

University Degree .

Leaving school at age 18 Compulsory national service till age . . . $18\frac{1}{2}$ or 19 Course for degree till age . . . $21\frac{1}{2}$ or 22

The question that at once arises on glancing through these tables is: where does apprenticeship come in? Mr. Brindle. is in favour of placing apprenticeship after qualification. While recognising that there is "a strong body of opinion" that would make it follow the Intermediate examination, he objects that academic studies would thus be interrupted and that it might be difficult for students "to pick up the threads again." If, then, apprenticeship is to be served after obtaining a degree or diploma, what should be its duration? If three years, "no intelligent youth," declares the chairman, "would dream of entering pharmacy." Accordingly it is suggested that the possible maxima are two years if taken before a qualifying examination course and one year if taken afterwards: "these will probably become more or less standardised periods." Many of our readers will no doubt be ready to point out difficulties in starting an apprenticeship at the age of about twenty-one.

One thing is certain: by whatever name the proposed post-graduate training in a pharmacy might be called, the training would not be apprenticeship as we have known it. Leaving educationists to wrestle with the implications of Mr. Brindle's time schedules, we desire to express our appreciation of the fundamental soundness of his conception of education. He utters a wise caution against cramming students with factual knowledge. The passage, too long for quotation in full, may be summed up in these words: "We are in danger of turning out a technician who is so full of facts memorised to pass an examination that he has neither the taste nor the capacity for his knowledge afterwards." Members of the two Boards of Examiners can, we believe, confirm this statement.

On the Shelf

A VIRTUAL stop was put on the supply quinine by chemists in August 1942. intention was to reserve strictly for use of malarial patients a compound wh after the fall of Java to the Japanese, in short supply in all United Nati markets. Under the Control of Cinch and Cinchona Products and Synth Substitutes (No. 1) Order (S. R. & 1942, No. 1604) it became illegal to any variety of cinchona bark, any of alkaloids of cinchona, their salts or der. tives, totaquine, quinetum, cinchona fe fuge, or "any synthetic product or mate which, according to current medical opir. is recognised as a specific for the prevent: alleviation or cure of malarial infection except on a medical prescription, or certain specified users. Returns had to made of all stocks in excess of 25 oz.

So far, good. But we have read July 1944, almost two years after the Or was enforced. The ban still holds. world supply position is substantia changed, not only by the large-scale s thesis of mepacrine but, potentially at a rate, by the reported synthesis of quin in the United States. We have heard one holder in Scotland of stocks valued £12. They are still on his shelves. He ! received no hint from the Ministry of Sup what he is to do with the material. Ex with some Services malarial subjects retu ing from Normandy as a result of a rec rence of the malady, there is little likeliho of any great demand through prescriptio especially in view of the number of ca for which mepacrine is now being p scribed. Every chemist presumably some stock, however small, of quinine other cinchona product which rema "frozen" by the Order. Is this mater valuable to the Ministry or not? The appear to order these things better in United States, where there was a national wide recall of quinine stocks from druggis and an impressive total of material v amassed from a host of individual co tributions, many of them trivial. If there no intention to do something of the s in this country, then the quinine ban sho be lifted.

BRITISH PHARMACEUTICAL CONFERENCE

eighty-first British Pharmaceutical. erence was held in London on July 11, 1. Brindle, B.Sc., Ph.C., F.R.I.C., in the

. Mr. F. G. Wells (president of the maceutical Society, who extended a me to members, congratulated them ne fact that since the first meeting of Conference in Bath in 1864 its conty had never been broken. London was d to have members there that day. R. Brindle then gave his Conference

ess (see p. 70).

of Thanks

R. H. BERRY, in moving a vote of thanks ne Chairman, said that he did so with ise of great appreciation of the matter s address, for it concerned a subject on h the speaker was an expert. The Chairhad lived through and taken an active in one very important phase in maceutical education: the period ediately following the war of 1914–18, the transition of the teaching of phary from optional, training in gnised schools to the present condition compulsory curricula and recognised ols. Mr. Brindle was at the present time of those who were pioneering pharmacy university, and striving to establish it e as securely as other, long-established, ects such as medicine, the arts, chemand the biological sciences. As many hem knew, that task was not an easy for pharmacy had been late in making ppeal for university recognition, yet such gnition was important for developing science. They were now approaching ther period of post-war planning, and in address the Chairman had given them an ellent survey of the general educational ation as he saw it, and a commentary the effect of that situation upon pharcy in particular. The occasion was opportune to debate the suggestions he speaker in detail, but, broadly speakhe found himself in general agreement h him. Pharmacy, like other professions, st review its educational requirements the light of the various schemes for ional changes in education. Certain nges would have to be made if the subject to retain its place in the scientific ld, and in particular retail pharmacy uld have to take certain important isions. The Chairman had commented on the subject of apprenticeship—a sub-t which had caused increasing concern schools of pharmacy during the last

twenty years. There was, he thought, general agreement that apprenticeship was urgently in need of review. Teachers undoubtedly regarded it as a very weak link in their educational system. He, like the Chairman, had always maintained that there was no adequate substitute for what one might term the old-fashioned apprenticeship when the apprentice-master taught the pupil every section of his craft. No college course could be a substitute for it, but unfortunately, in the majority of cases, that type of apprenticeship no longer existed, and schools, in designing courses of instruction, had been forced to ignore it in the training for the final qualifications.

Universities' Plans

Most of the universities had been discussing their post-war problems, and were already prepared with tentative plans to operate when peace came. He knew that to be true of their own university of London, where the board of studies in pharmacy had already reviewed the future for the degree in pharmacy, and had put forward some very important proposals. The period ahead of them was pregnant with possibilities, and he was optimistic for the future of the higher scientific branches of pharmacy if they would only keep pace in their educational system. The fundamental groundwork of training given to pharmacy students in chemistry, physics, and the biological sciences in the Intermediate stage, and the technical application of them in the final stages, could and did produce a valuable type—a person capable of learning to specialise in the many fields which constituted modern pharmacy. gave him great pleasure to move the vote.

Mr. T. E. Wallis, who seconded the vote of thanks, said that Mr. Brindle had an intimate acquaintance with educational He had evidently spent much methods. time and thought in studying many reports upon the educational plans which had appeared. They were grateful to him for having carefully examined them and for so clearly expressing his views. His address had stimulated their thoughts in several directions. Life, said Mr. Wallis, was so crowded with the discharge of duties that were ever pressing upon them that there was little time for quiet thought and reflection, and as they approached the period of reconstruction they were particularly indebted to their Chairman for placing his thoughts before them.

EDUCATION OF THE PHARMACIST

Abstract of the address given by the Chairman of the British Pharmaceutical Confere (Mr. H. Brindle, B.Sc., F.R.I.C., Ph.C.) at the Conference annual meeting in London, July

Education is the concern of everyone and it is gratifying to realise that the number of people who are feeling that it is a concern of theirs is increasing rapidly. The last twelve months have seen the publication of the report of the Norwood Committee on the curriculum and examinations in secondary schools. In the same period we have had a Government white paper on education and an Education Bill which is just in the process of becoming an Education Act. Medicine and chemistry have been active on their educational fronts, and in the last few weeks have issued reports of bodies appointed by them to consider their special educational problems. Has the pharmacist any educational problems at the present time? So far as I am aware no active steps are being taken officially to prepare for the future by examining the present educational position in pharmacy and planning for the future. Ultimately pharmacy will stand or fall as the result of the educated man passing judgment upon the individual pharmacist and for self-preservation, if for no other reason, we must keep abreast of the times with our educational policy. The Committee of Inquiry which was set up by the Council of the Pharmaceutical Society, in October 1937, evidently considered that pharmaceutical education came within its terms of reference, but only to the extent that about one-fiftieth of its report dealt with this subject, although an extremely useful appendix giving a history of pharmaceutical education and examination was published with Part II of the report in 1941. The educational problems confronting pharmacists are not identical with those with which the medical profession is grappling, but they are of similar difficulty, present some of the same problems, and merit the same careful scrutiny.

Preliminary and Secondary Education

As a result of the Government proposals and the general advance in education, modification of the secondary school education of the embryo pharmacist will occur in the near future quite apart from any directing influence from within pharmacy. The Norwood Committee has recommended the abolition of the School Certificate examination as it is known at present. The intention is that it should be replaced by an internal examination, i.e. one held by the authorities of the school itself, that this

examination would be taken by all scholars and that there should be no li to the number of subjects. It is probathat it will be impossible for professio bodies or universities to make any use this examination as an entrance or r liminary examination. Under the propos of the Norwood Committee, boys and g who intend to enter a university or professions, amongst which we may inclu pharmacy, will stay at school until the a of eighteen or more and at that age tak school-leaving examination which will be a standard in each subject approaching, 1 somewhat below, that of the present Hig School Certificate which it is propor should be abandoned. There would app to be some divergence of opinion amo the universities themselves as to their at tude towards this school-leaving examition. The majority will utilise it as entrance examination. Other universit are inclined to accept this school-leave examination as the equivalent of the Int mediate B.Sc. or B.Pharm., in which ca the student on entering the university v commence immediately the study of t subjects of his final examination. If su a student remains at the university three years, as is intended, he will certain receive a better and wider technical traini 'than at present.

Technical Efficiency or Lifelong Training

The universities which are likely arrange that the first year shall be an Int mediate B.Sc. or B.Pharm. year considerate more emphasis should be laid on wide general education. They will probab demand that, for entry upon a degr course in the university, the student sh have passed the school-leaving examinati in five subjects, one of which shall English. The remaining four will be suital divided between the so-called arts a science subjects. This type of education h a lifelong influence, but it takes time, a some technical training and immedia technical efficiency must be sacrificed for but I am convinced that ultimately t properly educated student will become mo efficient even as a technician.

I have had considerable experience interviewing prospective entrants to phamacy, and I find that pharmacy hattractions for a considerable number of the better educated pupils in the secondary.

ols. I feel strongly that every effort ld be made to encourage such boys and to train for pharmacy. One method maintaining the educational requirets for entry at the highest possible level shortening the period of apprenticeship. his part of the pharmacist's education rtain to be profoundly affected by the lges in general education. If the propted, as they are almost certain to be, Higher School Certificate examination be replaced by a school-leaving examinaof a standard somewhat lower in each ect, to avoid early specialisation. It is bable that the universities and the essions have no particular interest in School Certificate which will normally taken at the age of sixteen, but will ise the new School Leaving Certificate, mally taken at eighteen, as an entrance mination. The Pharmaceutical Society ld do well to consider the advantages ccepting the School Leaving Certificate. mination in lieu of its own Intermediate the subjects of chemistry, physics and ogy, but also demanding English and other optional subject. This would aden the basis for the technical and er education to follow.

mist and Druggist Course and Examination

The course and examination cover five jects, in three of which a relatively high ndard has to be attained in practical rk. In the period of nine years which s elapsed since the last major change in syllabus, more and more has been pected of the student, until it is generally nitted that the nine months' standard irse is inadequate. The student is so sy endeavouring to memorise and master facts which his lecturers are compelled put before him that he has no time to isider their significance or to acquire that stery of method which is the aim of true ucation. The Committee of Inquiry commended that the course for the emist and Druggist Qualifying examinan should be extended to two years and ide similar to that for the Pharmaceual Chemist Qualifying examination. It ould appear that little or nothing can be moved from the Chemist and Druggist urse or syllabus. That being so, no ucationist will object to the length of the urse being extended to two years. I however, considerable misgiving ıve, garding the recommendation that the llabus and examination be similar to at for the present Pharmaceutical Chemist

Qualifying examination. There is danger of a one-year's cram being converted into one of two years for the majority of the students. I trust it will be found practicable and economically possible to give all nondegree pharmaceutical students a two-year post-Intermediate course for a single registrable qualification. The rapid progress of pharmacy and allied sciences would appear, if superficially considered, to necessitate a larger knowledge of facts by the student. There is much to be said for another view. The main aim of the course should be to teach the student how to think, how to educate himself, how to apply exignific mathed to have the student how to the student how to the student himself. apply scientific method to his studies and how to appreciate the underlying principles. Less lecturing, more tutorial work, more experiment and less "spoonfeeding" in the laboratories and dispensaries are essential. I trust pharmacy will seize with both hands the opportunity which will be presented for giving every pharmacist such an education as will bestow upon him the ability to learn and therefore the power of keeping abreast with the more important advances during all the remaining years of his life. The public, which will become more and more highly educated itself, expects a pharmacist to be a cultured man with wide Although technical skill and knowledge on his part are essential he must be given time during his student years to develop the spirit of inquiry and attitude of mind which are the mark and priceless possession of the educated man.

Pharmaceutical Chemist Examination

Two factors have an important bearing on the future of the Pharmaceutical Chemist qualification as we know it at present. One is the probable extension of the Chemist and Druggist course to two years and the other the rapidly increasing number of students who enter pharmacy via the university degrees. The majority of the students who take the Ph.C. course at present have passed the Pharmaceutical Society's Intermediate examination Chemist and Druggist Qualifying examination before they realised the advantages of a degree in pharmacy, and do not feel like spending a further year on Intermediate subjects. This mistake has occurred as a rule mainly because they look to their apprentice master for advice, and many pharmacists in retail practice have not familiarised themselves with the more recent changes in the curricula. In the future only two avenues need be available -the first, the extended Chemist and

Druggist course possibly to be known as the Pharmaceutical Chemist course, and the second, the degree courses in pharmacy in the universities. Incidentally, I should deprecate the tendency to regard the Chemist and Druggist qualification as the one for retail pharmacy and the Ph.C. or degree courses as those to be taken by students who wish either to leave or avoid retail pharmacy. Retail pharmacy offers opportunities certainly comparable in all respects with those of the other branches of the profession.

University Degree Courses

About fifteen years ago the Pharmaceutical Society decided to recognise, subject to certain conditions, the training and examinations for university degrees in pharmacy. There can be no doubt that our pharmaceutical legislators of the time acted with great forethought. The pharmacy student is enabled to take a university course leading up to a degree which, whatever its shortcomings, is the best this country has to offer in the way of educative regarded as the hall-mark of a general education. In most cases the pharmacy student has close contact with students who are training for the other professions such as medicine, science, law, civil service, etc. He often attends some of the same lectures and works in the same laboratories. This association is of the greatest value to the future pharmacist. We are hoping that in the brave post-war educational world, secondary and university education will eventually be free.

Apprenticeship

I have been able to find in the report of the Committee of Inquiry only a very short reference to apprenticeship. The subject is certainly controversial. There are still a number of pharmacists who are able to give their apprentices a sound training in pharmacy. Such apprentices receive a varied dispensing experience, learn how to make galenicals and how to conduct the business of a pharmacist. If I considered only such apprenticeships I should strongly urge the continuation of the system much as we know it at present. But at the other extreme there is the pharmacist who takes an apprentice and utilises him as a source of cheap labour. If I considered only this type I should say abandon apprenticeship altogether. Between the two extremes there are all kinds of apprenticeship, hence the complexity of the problem.

Apprenticeship immediately following secondary school course gives the studen practical taste of the profession he chosen, broadens his outlook upon life increases his self-reliance. There is a str body of opinion in favour of apprentices after the Intermediate examination. main objection to this is that the acade studies of the student are interrupted : he finds it difficult to pick up the thre again. There is much to be said for apprenticeship taken after a qualify examination has been passed. The stud will understand the basic principles up which the technique of pharmaceutical or ations is built. I now come to the len of the apprenticeship. The pharmacist his student career in the future will lea school at eighteen with the equivalent the Intermediate examination; he will preably have six months' compulsory Natio Service, and enter the pharmacy school eighteen-and-a-half to nineteen. Two ye for the new Pharmaceutical Chemotherwise Chemist and Druggist qualifi tion, and he is about twenty-one. If takes a degree, as many will, he will be i less than twenty-one and probably twen two years of age. Can we demand that shall serve a three years' apprenticeshi No intelligent youth would dream of enteri pharmacy when confronted with su conditions. I feel that the maxima whi we shall be able to ask are two years taken before the course for a qualifyi examination and one year if afterwards.

Post-graduate Courses and Diplomas

I believe there is a considerable field exploration as regards post-graduate post-qualification courses. Having receiv a sound general training in pharmacy a allied subjects it would be advisable for a pr portion of the better qualified pharmacis to specialise in certain branches of pharma or science. It should be possible for t pharmacy schools to give advanced cours beyond the degree standard in the pharm ceutical subjects of pharmaceutics, pharm ceutical chemistry or pharmacognosy order that students who wish to speciali may do so. The students who enter reta pharmacy would wish to qualify in such subjects as optics, business knowledg advanced dispensing technique, etc., ar they may be sufficiently interested to tal some of the more technical or scientist subjects mentioned above. If the oppo tunities are offered I have sufficient fair in pharmacy and pharmacists to believe that there will be no lack of entrants.

SCIENCE PAPERS AT THE CONFERENCE

following are summaries of the science papers submitted at the annual meeting of the British Pharmaceutical Conference on July 11:—

The Sterilising Action of Steam Admixed with Air and Other Gases

By R. MAXWELL SAVAGE

literature on the autoclave contains y conflicting statements concerning the ence of the air which is often present ng sterilisation. Sometimes this is due he complexity of the subject, for air interfere with practical sterilisation in imber of ways, some of which are not y recognised. Often, the conflicts arise the unconventional way in which sical terms are used by bacteriologists, hat scrutiny of the context or a knowe of the usage of the particular author lves the conflict. Since steam varies tly in its action according to its physstate, it is clearly essential that, in eriments designed to test the effect of pon sterilisation, the physical state of steam in the various mixtures to be pared shall always be the same. If air lded without regarding the effect which it may have upon the physical state of the steam, it may happen that the whole of the bacteriological effect observed can be asscribed to an unperceived secondary effect, and none of it to a specific contribution by the air. The author has examined recent literature and made new experiments, from which it is concluded that there is no difference in the sterilising action or pure steam and of steam-air mixtures. Results showing the contrary appear to be due either to faulty technique or interpretation, or to one of the important difficulties which attend the use of an air-steam mixture. There is a very small but significant gain in sterilising efficiency when oxygen is mixed with steam and compared with similar mixtures of steam with hydrogen or nitrogen, which behave alike. (From the laboratories of S. Maw, Son & Sons, Ltd.)

The Protection of Ether Against Peroxide Formation

By Erich Boehm and Reginald Williams

an earlier publication, the authors rethe marked inhibiting action of gallate on the autoxidation of nal and vegetable fats. This paper ionstrates that the ester is also effective protecting ether from autoxidation. ts are given for the detection of perles in ether. The samples used in the estigations were supplied by three wellwn manufacturers of anæsthetic ether this country. Prior to the experiments, h sample conformed to the tests of ity given in the B.P. for anæsthetic er. Each series of experiments consisted control containing no antioxidant and number of samples containing different ioxidants, e.g. pyrogallol, hydroquinone propyl gallate at different concentra-Glass-stoppered colourless bottles ce half filled with the ether solutions to tested. Some experiments were concted in direct light and others in diffused it. The samples were examined at ervals for the presence of peroxides ording to the official test of the British armacopæia. Three tables are given, ich summarise the results obtained on posing the specimens to direct sunlight. e conditions under which this series of

experiments was carried out are the most drastic to which anæsthetic ether can possibly be subjected. The results illustrate the effectiveness of the various antioxidants and enable a comparison to be made of their stabilising influences. In general, the results indicate that the activity of each antioxidant increases with increasing concentration, though no marked effect is observed in the case of propyl gallate when its concentration is increased from 0.005 to o or per cent. For a given concentration, pyrogallol shows the most powerful inhibit-Even under conditions most ing action. favourable to the oxidation of ether 0.005 per cent. of propyl gallate effects a powerful inhibiting action. For less drastic conditions of exposure, minute traces of propyl gallate provide excellent protection ether, a conclusion illustrated by tables which record the results obtained for samples of ether stored in diffused light. Whereas the unprotected ether developed peroxides to a measurable extent in about fourteen days, ethers protected by 0.002 per cent. of propyl gallate were free from peroxides even after 131 days. (From the research department of Nipa Laboratories, Ltd.)

The Stability of Preparations Containing Ethyl Nitrite

By A. H. A. ABBOTT and BETTY H. HOOPER

THERE has always been uncertainty about the keeping properties of any preparation containing ethyl nitrite. Much has been published concerning the stability of spiritus ætheris nitrosi, but as yet pharmaceutical literature has contained no reference to the stability of liquor æthylis nitritis concentratus, which is the subject of a monograph in the Fifth Addendum to the British Pharmacopæia. Liquor æthylis nitritis concentratus is required to contain not less than 17 per cent. w/v and not more than 20 per cent. w/v of ethyl nitrite after storage; and after the container has been opened occasionally the solution must contain not less than 10 per cent. w/v of the ester. It is directed to be kept in small, well-closed containers protected from light, and these should be stored in a cool place. In order to determine the stability under varying conditions of storage, specimens complying with the Pharmacopæial requirements were placed in 4-oz. glass-stoppered amber bottles and kept under the following conditions: (a) On a shelf opposite a sunlit window; (b) on a shelf opposite a shaded window; (c) in a warm cupboard; (d) in a cold cupboard. The bottles were opened from time to time and small quantities of the contents removed, thus approximating to normal storage conditions. Samp were periodically assayed and the prograsive loss of ethyl nitrite is represented a table. It is seen that the rate of decom sition is relatively slow and is independ of the storage conditions. The effect adding the liquor to water and to et alcohol (95 per cent.) is shown. It is no that when liquor æthylis nitritis conc tratus is diluted with water at least 50 cent. of the ethyl nitrite is lost immediate and the authors conclude that the mixt of one volume of the liquor and seven v umes of water, which is the authoris alternative for spiritus ætheris nitrosi the Scarce Substances Order, 1942 (S. & O., 1942, No. 709), is an unreliable ρ paration. The authors show that a soluti prepared by dissolving ethyl nitrite in mixture of isopropyl alcohol and glyce is more stable than spiritus ætheris nitro B.P. 1932, or liquor æthylis nitritis, B 1914. Trials carried out by the authors a described in the present paper have demo strated that the aqueous mixtures made w the modified preparation contain at le the minimum theoretical proportion ethyl nitrite. (From the pharmaceuti research department of The British Dr Houses, Ltd.)

Vitamin B in Malt Extract

By Joan G. Organ, Eirene M. James and Frank Wokes

In a communication to last year's Conference it was shown that wide variations may occur in the vitamin B1 content of malt extract. It was suggested that these variations in food value were due at least in part to differences in malting or brewing conditions. In the present communication attention is paid to two questions arising out of the authors' previous work: (1) How much, if any, of the variations in vitamin B₁ content of malt extract is due to variations in that of the barley and malted barley used? (2) How far are the variations in vitamin B₁ content reflected by variations in content of other B vitamins? Experiments on eleven samples of English barley showed an average loss of 11.8 per cent. of the vitamin B_1 (calculated on dry weight) during malting, individual results ranging from 37 per cent. loss to 1.8 per cent. gain. Experiments on fifteen samples of English malt showed an average gain of 16.3 per cent. of the vitamin B₁ (calculated on dry weight) during brewing, individual results

ranging from 19.8 per cent. loss to 5 per cent. gain. Experiments which w carried out by the authors on ten samp of English barley tested before and af malting, and after brewing, showed average gain of 4.1 per cent. in the vitan B₁ content (calculated on dry weight) fr start to finish of the whole process. twelve commercial samples of malt extra the authors found that the nicotinic a content ranged from 7.5 to 13.4 mgm. 100 gm. On the whole, samples richer aneurine and protein contained more ni tinic acid. Vitamin B₁ was estimated by modified fluorimetric method which h been found to give satisfactory agreem with the microbiological method describ by Schultz, Atkin and Frey. Nicotinic a was estimated by a modification of M nick's method, which gave fairly satisf tory agreement with the microbiologi method of Snell and Wright, with mod cations. (From the Ovaltine resear laboratories.)

Stability of Adrenaline Solutions: I.—Solutions of Adrenaline Hydrochloride By H. Berry and G. B. West

MARISING their work, the authors state the effects of variation of temperature, and ph on solutions of adrenaline in ochloric acid have been studied in the ence and absence of potassium metaphite. The results show two mains of destruction, one due to oxygen the other due to heat. ph is an imment factor in influencing both rates of ruction. It has been shown by the frog method that the loss of activity rring in solutions of adrenaline in ochloric acid which have become pink, be regained by the addition of potassium

metabisulphite. It is suggested that the optimum conditions for stability and storage of solutions of adrenaline in hydrochloric acid when enclosed in ampoules with a small amount of air are (a) a pH of approximately 4·2 and (b) the presence of o·1 per cent. of potassium metabisulphite. Solutions of adrenaline in hydrochloric acid, having a pH of 4·2 and containing o·1 per cent. of potassium metabisulphite, may be sterilised by autoclaving (115° C. for thirty minutes), when enclosed in ampoules containing a small quantity of air. (From the College of the Pharmaceutical Society.)

A Note on the Hydrolysis of Diamorphine Hydrochloride in Aqueous Solution

By George A. Storey

discovery of fairly large amounts of phine, in an injection solution of diaphine hydrochloride which was some is old, led to this investigation of the of hydrolysis of diamorphine in sous solution. The amount present in injection solution examined far exed the 1.5 per cent. of morphine wed by the British Pharmacopæia in norphine hydrochloride. Goris and mont showed that the decomposition liamorphine hydrochloride in aqueous tion was increased by warming and

on keeping and that the decomposition occurred in two definite stages. They were of the opinion that injection solution of hydrochloride diamorphine would keep longer than three or four months. author found that the rate of hydrolysis of diamorphine hydrochloride in aqueous solution shows a continuous and steady increase. The effect of various sterilisation methods was studied. Heating at 160° hydrolysed at least one-half of the diamorphine present. (From the laboratories of Allen & Hanburys, Ltd.)

logical Assays of Simple Adrenaline Solutions by the Cat and Frog Heart Methods By H. Berry, E. Shotton and G. B. West

biological assay of adrenaline solutions sually performed using the vasopressor on in a spinal cat or dog, or the inhibitaction on an isolated rabbit intestine. ated frog hearts have also been utilised; assay by the latter method has a idard error of 2.17 per cent. This paper sents results of assays carried out by cat and frog heart methods on solutions drenaline. Solutions of adrenaline, B.P., e first compared with a similar solution taining o·1 per cent. of potassium meta-The results are ılphite. recorded, heated solutions having activity of 100 cent. The solution containing metaulphite showed a much smaller loss of ivity, and was therefore chosen as the ndard for the frog heart assays. The hors state that all the solutions were bured after heating except when metaulphite was present. Unheated solutions рн values higher than 4.0 colour quickly

if left in the air for some time without metabisulphite, but the loss in activity is not great. For the cat assays, therefore, a small error was involved at these рн values as the standard for reference was the activity of the unheated control solutions. This error did not arise in the frog heart assays, as the standard was a stable solution which did not colour on standing and which did not lose activity between tests. The authors conclude that assays by the frog heart method of heated adrenaline solutions give results comparable with those obtained by the standard cat method. The optimum ph for maximum stability of adrenaline solutions heated in ampoules with a small amount of air is approximately 4.2. Potassium metabisulphite o i per cent. does inhibit the loss of activity when adrenaline solutions are autoclaved in ampoules. (From the College of the Pharmaceutical Society.)

(To be continued)

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represe the prices for wholesale quantities of standard quality. C.i.f. quotations do not inclu marine war risk insurance and other abnormal charges payable in the present emergen

28 Essex Street, W.C.2, July 12

CONDITIONS in the London drug and chemical markets have remained quiet during the past week, with most of the orders calling for minimum quantities of goods. Prices show little variation from last quotations, and the general tone is firm. Little of interest has occurred in Pharma-CEUTICAL CHEMICALS and, except in one of the minor Iodides, no price changes have been announced. The CRUDE DRUGS markets have experienced another quiet week, most of the orders received being for modest quantities required for immediate consumption. The price level remains steady, alterations being confined to small amounts either way. Curação Aloes continues firm, but no Cape is available. Ceylon Areca nuts are quoted at about 10s. per cwt. lower. Balsams are steady. Cardamoms are quiet, and without quotable change on the week. The price of CLOVES is firmer. The forward price of ERGOT has an upward tendency, obviously the result of buying on new allocations. Gum Acacia is firm but without price alteration. Kamala is dearer on the spot. Menthol is wanted, but stocks are difficult to locate. Rhubarb remains in good request, with the recent higher prices well maintained. SEEDS are quiet and unchanged. Tragacanth is quiet, with prices of medium grades unaltered. Some demand has been received for TURMERIC, which is dearer on the spot. No changes of interest have occurred in either Essential Oils or synthetic products during the week under review. Ministry of Food has authorised an increase in the prices of certain fatty acids, as a result of a recent advance in the selling price of crude Linseed oil. Anise (star) and Peppermint remain nominal, with supplies exceedingly difficult to find. English distilled CLOVE and NUTMEG are unchanged.

Pharmaceutical Chemicals

Amphetamine.—Current price quoted by makers is steady at 150s, per lb.

ASPIRIN.—Demand continues fair, with prices unchanged. Currently quoted rates per lb., in quantities of 28 lb.—I cwt., are as follows (containers in brackets): 4s. (I-lb.); 3s. Io½d. (4-lb.); 3s. 9½d. (7-lb.); 3s. 9d. (14-lb.); 3s. 8½d. (28-lb.).

BORAX.—Makers' current rates are as follow B.P. quality, granulated, £42 per ton; cryst £43; powder, £43 10s. Packed in one-cwt. bat delivered carriage paid in Great Britain in or ton lots and upwards. Commercial grades, per ton less.

BRUCINE.—Current rates per oz. are follows: Alkaloid.—Under 25 oz., is. $4\frac{1}{2}$ 6 25 oz. and under 100 oz., is. 4d.; 100 oz. at under 500 oz., is. $3\frac{1}{2}$ d. Nitrate and Sulphat—Under 25 oz., is. $3\frac{1}{2}$ d.; 25 oz. and under 1 oz., is. 3d.; 100 oz. and under 500 oz., is. $2\frac{1}{2}$

DEXTROSE.—Current prices per lb., in lo of 28 lb.—I cwt., are as follows (containers brackets): Is. 2\frac{1}{4}d. (I-lb.); Is. 1\frac{1}{4}d. (2-lb. Is. 0\frac{3}{4}d. (4-lb.); II\frac{3}{4}d. (7-lb.); II\frac{1}{4}d. (14-lb. Io\frac{3}{4}d. (28-lb.).

MAGNESIUM CARBONATE, HEAVY.—Make quote for the home trade the following pric per lb. in quantities of 28 lb.—1 cwt. (containe in brackets): 1s. 6½d. (1-lb.); 1s. 5d. (4-lb.); 1s. 4d. (7-lb.); 1s. 3½d. (14-lb.); 1s. 3d. (28-lb.) Prices net one month.

PHENOLPHTHALEIN.—Makers' prices at steady as follows: Less than 7 lb., 4s. 6d. p lb., 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d I cwt., 4s. 2d.

Santonin.—Home-trade prices are as follows 10 kilos and over, £62; not less than 5 kilo £63; 2-4 kilos, £64; 1 kilo, £65; 500 gm., £66 ; 500 gm., £68; less than 100 gm £69 per kilo. Carriage paid in United Kingdon

Vanillin.—Current rates per lb. are a follows: 5 cwt., 21s. per lb.; 1 cwt., 21s. 3d 56 lb., 21s. 6d.; less than 56 lb., 21s. 9d.

Crude Drugs

Aloes.—Curação is firm on spot at 450s. pecwt.

Areca nuts.—Ceylon, wormy, spot, 105s. pecwt., ex store.

Balsams.—Peru remains steady on spot a 7s. 9d. per lb., and Canada at 10s. Tolu an Copaiba are unobtainable.

Buchu Leaves.—Limited supplies are quote at 5s. 3d. per lb.

Camphor.—Chinese crude, in small compas on spot, 10s. per lb., to approved users; simila quantities of B.P., 11s. 6d.

Cardamoms.—Little interest in this item prices unchanged. Aleppy greens, spot, 5s. 6c per lb.; Aleppy seed, 6s. 6d.; split seed, 5s. 6c

Cloves.—Spot price of Zanzibar is not is. 4d. per lb.; to arrive, unquoted.

Cocoa butter.—Except under Ministry of Food licence, sales prices are fixed at is. 5½ oper lb., ex factory or warehouse.

olocynth.—Fair white pulp is offered on t at 2s. 10½d. per lb.

digitalis leaves.—Portuguese leaves, spot, s. per cwt.; English-grown leaves, 2s. 6d.

Pragon's blood.—Zanzibar drop, in limited pass on spot, £25 per cwt.; no other ieties are offered.

RGOT.—New allocations and the consequent dency towards considerable buying have ilted in a price increase at origin; 6s. 3d. lb., landed terms, seems to be the current be level, even for old crop.

UM ACACIA.—Kordofan cleaned sorts, steady spot at 80s. per cwt.; bleached, shipment, s., c.i.f. Talha, cleaned, 50s. per cwt., ded.

IENBANE.—Indian leaf, spot, 250s. to 275s. cwt., according to holder; some low-testing terial is quoted at 1s. per lb., and Russian at 350s. per cwt.

ABORANDI.—No change in the spot price of 6d. per cwt., but available supplies are

KAMALA.—Material with 6 per cent. ash would valued at 2s. per lb.

IQUORICE ROOT.—Russian root, for pharceutical purposes, 85s. per cwt.; small plies of single-peeled Syrian, spot, 110s. per ., subject to D.M.S. approval.

Menthol.—In good demand, but supplies difficult to find.

AYRRH.—Any available spot supplies of good en sorts would be worth £20 per cwt.

PIMENTO.—Sellers on spot at 1s. 4½d. per lb. RHUBARB.—Remains in good demand, with gh-round on spot priced at 10s. 6d. to 11s.

lb. Shensi, irregular shapes, 14s. SEEDS.—Quiet and unchanged. Current ces are as follows: Corlander.—Indian, per cwt. Cumin.—Maltese, spot, 105s.; lian, 100s. DILL.—125s., ex wharf. Fennet.

Offered at 85s. Fenugreek.—May be had

Mustard.—Controlled prices are 8os.

changed.

Senna.—Alexandrian medium pods are at per lb.; Tinnevelly, manufacturing grade, to 6\frac{1}{2}d.; hand-picked, 8\frac{1}{2}d. to 1s.; broken exandrian leaves, 1s. 3d. to 1s. 4d.; siftings, 2d.; Tinnevelly, No. 1, 9d. to 10\frac{1}{2}d.; No. 2, to 7\frac{1}{2}d.; No. 3, 5\frac{1}{2}d. to 6d.

Tragacanth.—Demand continues fair. Prices the medium grades are unchanged as follows: . I, white, £130 per cwt.; No. 2, white, £115; 3, white, £100; No. 4, white, £85; pale leaf, o; amber leaf, £50; dark amber, £40; brown f, £30; red-and-brown leaf, £25; red leaf, m £20; hoggy, £12 to £15.

TURMERIC.—In better demand, with prices reased. Madras finger, sound-quality, spot, s. 6d. per cwt., London; 55s., Liverpool; s. 6d., Glasgow.

Valerian root.—Indian root is quoted on ot at 95s. per cwt.

Essential and Expressed Oils

Anise (STAR).—Unchanged, with the price nominal at 160s, per lb.

BAY.—Spot, if available, approximately 12s.

CASTOR.—Official quotation for firsts is £92 per ton, and that for seconds, £90, both naked . ex works, in bulk quantities.

CINNAMON.—Any available spot supplies of leaf oil would bring in around 13s. 9d. per lb.

CLOVE.—No change in English distillers' prices at 11s. 6d. to 12s. per lb., according to quantity.

COCONUT.—Bulk quantities of refined deodorised are officially priced at £49 per ton, and refined hardened deodorised at £53.

Cottonseed.—Controlled prices for bulk supplies are as follows: Crude, £52 2s. 6d.; washed, £55 5s.; refined edible, £57; refined deodorised, £58 per ton; all varieties quoted naked ex works,

Eucalyptus.—Small supplies of 70 to 75 per cent. oil are quoted on spot at around 7s. 6d. per lb.

Gingergrass.—In small compass on spot at approximately 22s. 6d. per lb.

GROUNDNUT.—Bulk supplies are officially priced as follows: Refined deodorised, £58 per ton; refined hardened deodorised, to 40°, £62; refined hardened deodorised, to 50° to 52°, £63; all naked ex works.

LINSEED.—The official bulk price of crude has been advanced by £2 per ton to £62 per ton, naked ex works.

The following new maximum prices have been announced for linseed oil fatty acids: split, £72; distilled, £83 7s. per ton, naked ex works.

NUTMEG.—English distillers quote at 35s. per lb., with lower rates for quantities.

OLIVE.—Edible oil is quoted at 25s. 9d. per gallon (9 lb.) ex store.

Palmarosa.—Small quantities are available at approximately 55s. per lb.

Peppermint.—In good demand; price nominal at 190s. per lb.

RAPESEED.—Bulk lots are officially quoted at £85 per ton, naked ex works.

COMING EVENTS

Sunday, July 16

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble from Romily to Higher Poynton. Meet London Road Station, 9.30 a.m. Book Higher Poynton return.

Book Famine.—The Publishers' Association has issued a memorandum drawing attention to the acute shortage of paper The quota available for book publishing. for the trade (2 of pre-war use) is an indication of the acute need of waste paper in arms production. Save yours for salvage.

MISCELLANEOUS INQUIRIES

Sodium Fluoride as Insecticide. - I. O. H. -Sodium fluoride is a good poison for insects (cockroaches, etc.), and is the active ingredient in many ant exterminators. Its use for this purpose has led to a number of cases of human poisoning, but no records seem to have been kept of the minimum fatal dose in man and domestic animals. Sodium fluoride is dangerous especially if the epidermis is broken, and is not recom-mended for application to the skin. A reliable and safe insect powder for dogs is:-

Boric acid

Preventing Rust on Steel.—C. B.—All the products you mention have the mechanical effect of producing a coating through which the oxygen of the air cannot penetrate to oxidise the iron. The coal tar naphtha and the kerosene also help by penetrating minute chinks in the metal, which otherwise might be exposed to the air, and are thus useful as solvents for the fats. chief advantage of lanolin is its tenacity, as it forms a very adherent film. Syrupy phosphoric acid is a solvent of rust, forming a phosphate of iron which is soluble in excess of the acid.

Male Fern for Dogs .- K. H. M .- Ext. filicis liq. is often uncertain in its action on dogs, and apt to cause nausea. When it is decided to give such an agent, it is advisable to administer a capsule of chlorbutol half an hour before giving the vermifuge. It is inadvisable to dose a dog which is feverish or suffering from distemper, as this may lead to enteritis. Tapeworms can be ejected by means of pulv. arecae, any apparent failure being usually due to old powder. Freshly grated powder is best, gr. 2 for each lb. weight of the dog, to a maximum of dr. 2.

Crab Lice.—B. L.—The usual methods of dealing with these troublesome pests involve the necessity of shaving, with considerable discomfort to the individual. Organic thiocyanates have for some time been used with good effect against lice on the head and body and are equally effective against the crab lice (Phthirius pubis). Lauryl thiocyanate is the least irritant, especially as an emulsion. Melt I part of Lanette wax S.X. with 2½ parts of lauryl thiocyanate to 70° C., pour into 47½ parts of water, also at 70° C., and stir till cold. One application only (about dr. 3) is usually required. The clothing and bedding should also be disinfected.

TRADE MARKS

(From "The Trade Marks Journal," June : "VENUSINE"; for dyes for the hair (3). M. Paillard, 14 Buckingham Palace Ro

M. Palliard, 14 Buckingham Palace Re London, S.W.1. 625,902.

"LADYE JAYNE"; for perfumery, non-me cated toilet preparations, powder and roboxes, cosmetics, dentifrices, face power and essential oils (3). By Jarrett, Rainst & Laughton, Ltd., Lower Essex Str Birmingham, 5. 627,260 (Associated).

"Tanozta"; for make up make up representations.

Birmingham, 5. 027,200 (Associated).
"Tanozia"; for make-up, make-up remo and for preparations for alleviating sunb and for tanning the skin (3). By E. Ratel 14 Ealing Road, Wembley. 627,619.
"B.W." and "B. & W."; for all goods (5).
The Wellcome Foundation, Ltd., 183 Euston Road, London, N.W.1. B623,279 (Associated).

(Associated).

"Kola-Rik"; for medicated wines contain cola (5). By Rikola, Ltd., 31 St. Jol Hill, London, S.W.11. 625,145 (Associat

"QUASONA"; for pharmaceutical preparation and substances (5). By Ashe Laborator Ltd., 120–22 Victoria Street, London, S.V.

627,351.
"INTA"; for pharmaceutical preparations substances for human and veterinary (excluding insecticides, etc.) and for the dages (5). By The International Colou Hardware Co., Ltd., 2 Broad Street Pl London, E.C.2. 627,768.
"Discolanae"; for medicated ointments

human use prepared from wool fat (5). Blackwell, Hayes & Co., Ltd., 51 M Street, Birmingham, 4. B627,844.

"Shadforth"; for pharmaceutical preparati and substances (5). By Shadforth I scription Service, Ltd., 63 Grove Road, B

London, E.3. 627,847.
"Syndrum"; for pharmaceutical preparat for human and veterinary use (5).
Bureau of Insemination, Ltd., 9 Car.

Road, Burnley, Lancs. 628,218.

"JESTABS"; for pharmaceutical preparation etc., for human and veterinary use, sanit goods, infants' and invalids' foods, a septics, disinfectants and weed and ver destroyers (5). By Jests, Ltd., 250 Ar Avenue, Trading Estate, Slough, Bu Avenue, Trading Estate, Slough, Bu 628,339 (Associated).
"Squassa"; for medicated lemon, oral

grape fruit and lime squashes (5). By Hot Hoseason & Co., Ltd., Sun Buildings, Bri Street, Manchester. B628,416.

"C. & D." Quiz No. 32.—The answers to questions on p. 57 are: 1. Jonathan Pere 2. Ferric ferrocyanide (Prussian blue). 3. 4 monium chlorostannate. 4. Hydrated m ganese dioxide. 5. Albertus Magnus (A.D. 12 6. Resinous exudation of *Pistacia Lentis* 7. Nitrogen. 8. L. J. Thenard, 1818. 9. A twhere salt was mined. 10. Triplumbic tetrox Pb₃O₄, red lead.

In Quiz No. 30 (C. & D., June 17, p. 6 "basic copper sulphate" should read "cop

oxyacetate.

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nystery lies in what is yet to be discovered.
nists, veterinary surgeons, industrial
ts, working on a hundred facets of the
are finding in iodine one of the most fasg problems of research. Consider some of
recent applications: "Thermometer"
which reveal in colour changing temper-

Polaroid, which makes possible such magic as non-glare headlights, stereoilms and visible representation of changing in plastic materials; and infra-red raphy which makes hitherto invisible visible.

any new facts have been brought to light in hundred years that it has been necessary up an organisation to disseminate this dge. This organisation is the IODINE TONAL BUREAU. It was formed in 1938. vices of this bureau are available free to dustrial or commercial undertaking with ne problem.

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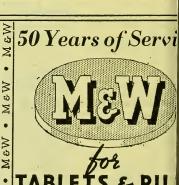
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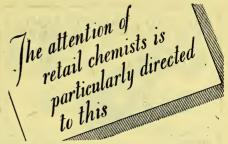
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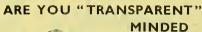
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